PATENT

B. AMENDMENTS TO THE CLAIMS

1. (Original) A method of managing a shared resource, said method comprising:

determining whether a process identifier included in a queue corresponds to a read requestor or a write requestor;

allowing the write requestor to write to the shared resource in response to the process identifier corresponding to the write requestor; and

allowing one or more successive read requestors to read from the shared resource in response to the process identifier corresponding to one of the read requestors.

2. (Original) The method as described in claim 1 further comprising:

setting a resource lock in an available mode;

setting the resource lock in a read mode in response to the first of the one or more read requestors accessing the available resource lock; and

granting each of the read requestors read access to the resource lock.

3. (Original) The method as described in claim 1 further comprising:

setting a write wanted flag in response to a write requestor requesting a resource lock after the resource lock has been set in read mode;

requesting lock access by one or more read requestors, the requesting occurring after the write wanted flag is set;

granting lock access to a first group of the read requestors in response to the first group being included in the one or more successive read requestors; and

denying lock access to a second group of the read requestors in response to the second group not being included in the one or more successive read requestors.

4. (Original) The method as described in claim 3 further comprising:

setting a woken up flag for each read requestor included in the first group.

5. (Original) The method as described in claim 1 further comprising:

releasing a resource lock; and

granting a requesting process ownership of the resource lock, wherein the requesting process is the first process to request the resource lock after the releasing.

6. (Original) The method as described in claim 5 wherein the requesting process does not correspond with any of the process identifiers included in the queue.

7. (Original) The method as described in claim 5 wherein the requesting process corresponds with one of the process identifiers included in the queue.

8. (Original) The method as described in claim 5 further comprising:

speeding up processing for one or more read requestors that acquire the resource lock.

9. (Original) The method as described in claim 8 wherein the speeding up includes granting one or more read requestors a temporary time slice exemption.

10. (Original) The method as described in claim 1 further comprising:
identifying an upgrader in the queue; and
granting the upgrader a write lock to the shared resource.

11. (Original) The method as described in claim 10 further comprising:
boosting a priority of the upgrader prior to the upgrader writing to the shared resource.

12. (Original) An information handling system comprising:
one or more processors;
a memory accessible by the processors;
one or more shared resources;
a nonvolatile storage device accessible by the processors; and
a shared resource manager, the shared resource manager including:
means for determining whether a process identifier included in a queue corresponds to a read requestor or a write requestor;
means for allowing the write requestor to write to the shared resource in response to the process identifier corresponding to the write requestor; and

means for allowing one or more successive read requestors to read from the shared resource in response to the process identifier corresponding to one of the read requestors.

13. (Original) The information handling system as described in claim 12 further comprising:

means for setting a resource lock in an available mode;

means for setting the resource lock in a read mode in response to the first of the one or more read requestors accessing the available resource lock; and

means for granting each of the read requestors read access to the resource lock.

14. (Original) The information handling system as described in claim 12 further comprising:

means for setting a write wanted flag in response to a write requestor requesting a resource lock after the resource lock has been set in read mode;

means for requesting lock access by one or more read requestors, the requesting occurring after the write wanted flag is set;

means for granting lock access to a first group of the read requestors in response to the first group being included in the one or more successive read requestors; and

means for denying lock access to a second group of the read requestors in response to the second group not being included in the one or more successive read requestors.

15. (Original) The information handling system as described in claim 12 further comprising:
means for releasing a resource lock; and
means granting a requesting process ownership of the resource lock, wherein the requesting process is the first process to request the resource lock after the releasing.

16. (Original) The information handling system as described in claim 15 wherein the requesting process does not correspond with any of the process identifiers included in the queue.

17. (Original) The information handling system as described in claim 15 wherein the requesting process corresponds with one of the process identifiers included in the queue.

18. (Original) The information handling system as described in claim 12 further comprising:
means for speeding up processing for one or more of the read requestors that acquire a resource lock.

19. (Original) The information handling system as described in claim 18 wherein the means for speeding up includes means for granting one or more read requestors a temporary time slice exemption.

20. (Original) The information handling system as described in claim 12 further comprising:
means for identifying an upgrader in the queue; and
means for granting the upgrader a write lock to the shared resource.

21. (Original) The information handling system as described in claim 20 further comprising:
means for boosting a priority of the upgrader prior to the upgrader writing to the shared resource.

22. (Original) A computer program product for managing a shared resource, said computer program product comprising:
means for determining whether a process identifier included in a queue corresponds to a read requestor or a write requestor;
means for allowing the write requestor to write to the shared resource in response to the process identifier corresponding to the write requestor; and
means for allowing one or more successive read requestors to read from the shared resource in response to the process identifier corresponding to one of the read requestors.

23. (Original) The computer program product as described in claim 22 further comprising:
means for setting a resource lock in an available mode;
means for setting the resource lock in a read mode in response to the first of the one or more read requestors accessing the available resource lock; and
means for granting each of the read requestors read access to the resource lock.

24. (Original) The computer program product as described in claim 22 further comprising:
means for setting a write wanted flag in response to a write requestor requesting a resource lock after the resource lock has been set in read mode;

means for requesting lock access by one or more read requestors, the requesting occurring after the write wanted flag is set;

means for granting lock access to a first group of the read requestors in response to the first group being included in the one or more successive read requestors; and

means for denying lock access to a second group of the read requestors in response to the second group not being included in the one or more successive read requestors.

25. (Original) The computer program product as described in claim 24 further comprising:

means for setting a woken up flag for each read requestor included in the first group.

26. (Original) The computer program product as described in claim 22 further comprising:

means for releasing a resource lock; and

means for granting a requesting process ownership of the resource lock, wherein the requesting process is the first process to request the resource lock after the releasing.

27. (Original) The computer program product as described in claim 26 wherein the requesting process does not correspond with any of the process identifiers included in the queue.

28. (Original) The computer program product as described in claim 26 wherein the requesting process corresponds with one of the process identifiers included in the queue.

29. (Original) The computer program product as described in claim 26 further comprising:
means for speeding up processing for one or more read requestors that acquire the resource lock.

30. (Original) The computer program product as described in claim 29 wherein the means for speeding up includes means for granting one or more read requestors a temporary time slice exemption.

31. (Original) The computer program product as described in claim 22 further comprising:
means for identifying an upgrader in the queue; and
means for granting the upgrader a write lock to the shared resource.

32. (Original) The computer program product as described in claim 31 further comprising:
means for boosting a priority of the upgrader prior to the upgrader writing to the shared resource.